



# NEUROPACE

## **Patient Data Management System**

### **User Manual**

**Model 4340**

**R<sub>X</sub>Only**



**TABLE OF CONTENTS**

<b>Introduction .....</b>	<b>5</b>
Contacting NeuroPace.....	5
About this Manual .....	5
Typographic Conventions .....	5
<b>NeuroPace® Patient Data Management System.....</b>	<b>7</b>
Overview of the PDMS .....	7
Accessing the PDMS .....	8
Password Information .....	9
Setting up Personal Profile Information .....	10
Navigating the PDMS .....	10
Patient List .....	11
Patient Summary Report .....	11
PDMS Patient-Specific Pages .....	12
Reports .....	12
Neurostimulator History .....	17
Configure Detection .....	18
Programming Epochs .....	23
Patient Info.....	24
Exiting the PDMS.....	24
<b>PDMS Troubleshooting .....</b>	<b>25</b>



## INTRODUCTION

### CONTACTING NEUROPACE

All questions or concerns regarding the NeuroPace® Patient Data Management System should be forwarded to:

NeuroPace, Inc.  
455 N. Bernardo Ave.  
Mountain View, CA 94043

Customer Support: 1-866-726-3876  
(Toll Free in the United States)

Website: [www.NeuroPace.com](http://www.NeuroPace.com)

### ABOUT THIS MANUAL

This manual is intended to provide instructions for using the NeuroPace® Patient Data Management System. Additional information is presented on the Patient Data Management System website.

This is a reference manual supporting the NeuroPace® RNS® System. For further information about the RNS® Neurostimulator, NeuroPace® Programmer, and NeuroPace® Remote Monitor see the RNS® System User Manual and the NeuroPace® Remote Monitor Manual available at [www.NeuroPace.com](http://www.NeuroPace.com) or by contacting NeuroPace, Inc.

### TYPOGRAPHIC CONVENTIONS

This manual uses different formats and symbols to distinguish notes and instructions.

*Note: Notes provide additional information that is particularly useful or important.*

1. Numbered paragraphs contain instructions that provide procedural information.

**BOLD SMALL CAPS** identify text or user-selectable buttons on the NeuroPace® Patient Data Management System website pages.

**BOLD SMALL CAPS → BOLD SMALL CAPS**: phrases or words in **BOLD SMALL CAPS** separated by an arrow ( → ) indicate a sequential series of commands to be selected on the NeuroPace® Patient Data Management System website pages.



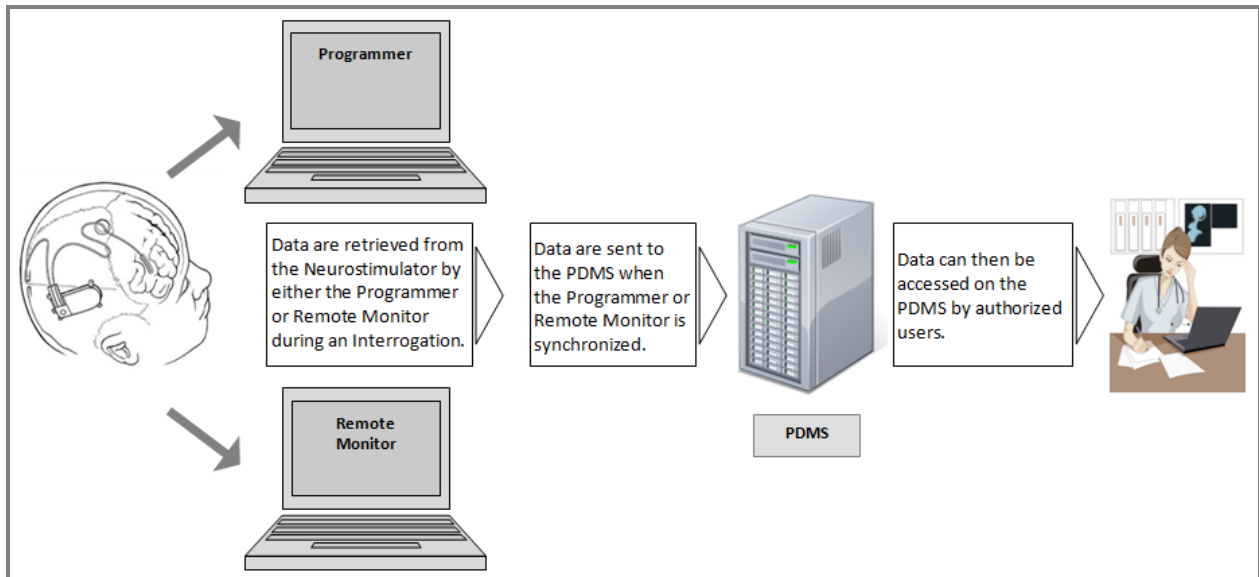
## NEUROPACE<sup>®</sup> PATIENT DATA MANAGEMENT SYSTEM

### OVERVIEW OF THE PDMS

The NeuroPace<sup>®</sup> Patient Data Management System (PDMS), Model 4340, is used to store and provide access to historical RNS<sup>®</sup> Neurostimulator data.

The RNS<sup>®</sup> Neurostimulator stores data until interrogated by either the NeuroPace<sup>®</sup> Programmer or the NeuroPace<sup>®</sup> Remote Monitor. Interrogation transmits data from the Neurostimulator to the Programmer or Remote Monitor. When the Programmer or Remote Monitor is synchronized via the internet by way of a secure connection to the PDMS, the data are transmitted to the PDMS. The data are stored on PDMS and can be accessed by authorized users through the PDMS website using a secure web browser.


The PDMS can also be used to create and simulate detection settings. The detection settings can then be sent to a user identified Programmer for use at a later date.



**ACCESSING THE PDMS**

1. Using any computer with internet access, navigate to <https://patientcare.neuropace.com/>.
2. Enter the **USER NAME** and **PASSWORD**.
3. Click **LOG IN**.

Patient Data Management System



LOG IN

Enter your user name and password to access the Patient Data Management System.

User Name

Password

Log In

Forgot your password? Access your [Password Hint](#).

**Note:** Your user name and password combination constitutes an electronic signature.



## PASSWORD INFORMATION

### Obtaining a PDMS Password

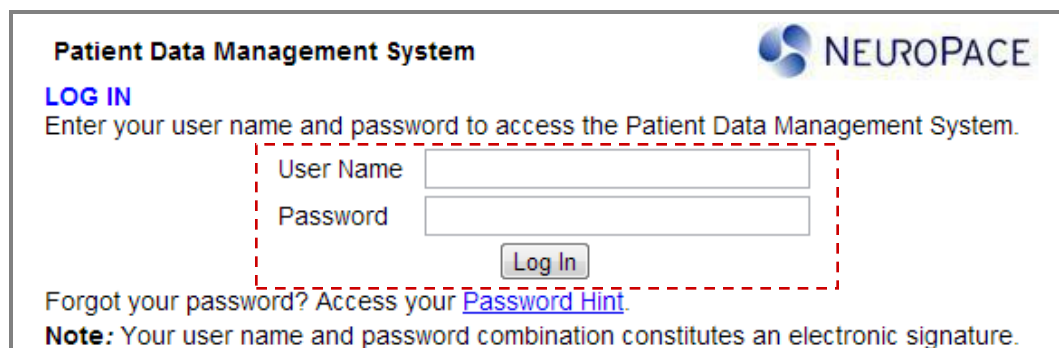
A user name and password are required for user authentication and access to the PDMS. The user name and password provided for accessing the PDMS are NOT the same as those provided for the NeuroPace® Programmer.


Users are responsible for maintaining the confidentiality of their user name and password.

Contact NeuroPace to obtain a user name and password and then complete the following steps:

1. Enter the NeuroPace assigned user name and temporary password to access the PDMS for the first time.
2. Follow the instructions on the website page to change a password after logging into the PDMS.

**NOTE:** Users are required to change their temporary password after accessing the PDMS for the first time.



**Patient Data Management System** 

**LOG IN**  
Enter your user name and password to access the Patient Data Management System.

User Name

Password

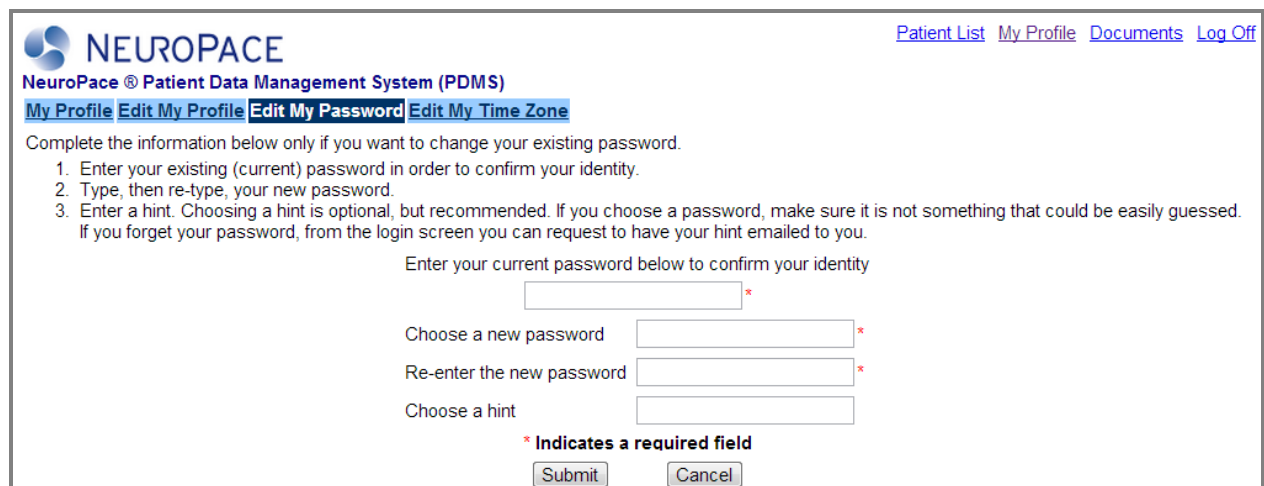
Forgot your password? Access your [Password Hint](#).


**Note:** Your user name and password combination constitutes an electronic signature.

### Editing the PDMS Password

Changes to an existing PDMS password can be made at any time in the future by logging into the PDMS. Follow the directions on the website page to change a password.

1. Select My Profile ➔ Edit My Password.  
[Patient List](#) | [My Profile](#) | [Documents](#) | [Log Off](#)
2. Complete the information to change the existing password.
3. Select a hint to remember the password should it need to be retrieved in the future. The hint will be emailed to the email address listed in the user's profile.



 [Patient List](#) [My Profile](#) [Documents](#) [Log Off](#)

**NeuroPace® Patient Data Management System (PDMS)**

[My Profile](#) [Edit My Profile](#) [Edit My Password](#) [Edit My Time Zone](#)

Complete the information below only if you want to change your existing password.

1. Enter your existing (current) password in order to confirm your identity.
2. Type, then re-type, your new password.
3. Enter a hint. Choosing a hint is optional, but recommended. If you choose a password, make sure it is not something that could be easily guessed. If you forget your password, from the login screen you can request to have your hint emailed to you.

Enter your current password below to confirm your identity

\*

Choose a new password  \*

Re-enter the new password  \*

Choose a hint

\* Indicates a required field

## SETTING UP PERSONAL PROFILE INFORMATION

### Viewing and Editing Personal Profile

Profile settings can be viewed and modified by selecting **MY PROFILE**, which is located on every page in the upper-right corner.

Changes to profile information can be made at any time by selecting **MY PROFILE → EDIT MY PROFILE**.

**NEUROPACE** [Patient List](#) [My Profile](#) [Documents](#) [Log Off](#)

NeuroPace® Patient Data Management System (PDMS)

[My Profile](#) [Edit My Profile](#) [Edit My Password](#) [Edit My Time Zone](#)

The contact information you previously provided to NeuroPace is listed below.  
To change any of the information, edit the appropriate field(s) then press the Submit button.

e-mail

phone (area code + number + extension)  \*  \*

Street Address

City

State

ZIP Code

\* Indicates a required field

### Editing the Time Zone

The PDMS displays RNS<sup>®</sup> Neurostimulator event timestamps in the time zone of the user's choice. Some information may be time-stamped in a different or preferred time zone. To change the time zone information, select **MY PROFILE → EDIT MY TIME ZONE**.

**NEUROPACE** [Patient List](#) [My Profile](#) [Documents](#) [Log Off](#)

NeuroPace® Patient Data Management System (PDMS)

[My Profile](#) [Edit My Profile](#) [Edit My Password](#) [Edit My Time Zone](#)

PDMS displays RNS<sup>™</sup> Neurostimulator event timestamps in the time zone of your choosing.  
Your current time zone for this purpose is displayed below.  
You may choose a different time zone.

Please choose a time zone:

## NAVIGATING THE PDMS

Navigating on the PDMS is done through a tab system and hyperlinks. Tabs, which are located at the top of every PDMS page, are also used to navigate to other pages on the website, and inform the user where he or she is within the PDMS. In the example, the **REPORTS** tab has been selected. Hyperlinks are also used to direct the user to another location within the PDMS or to open a PDF file.

**NEUROPACE** [Patient List](#) [My Profile](#) [Documents](#) [Log Off](#)

NeuroPace® Patient Data Management System (PDMS)

[Reports](#) [Neurostimulator History](#) [Configure Detection](#) [Programming Epochs](#) [Patient Info](#)

Patient: PATIENT A Gender: Male Center: Market Test


**NOTE: THIS DOCUMENT MAY CONTAIN PRIVATE MEDICAL INFORMATION**

RNS® NEUROSTIMULATOR DATA SUMMARY ([hide](#))

## PATIENT LIST







A list of patients at the user's site is shown immediately following login. The Patient List can also be accessed by selecting the Patient List hyperlink located on every page in the upper-right corner.

The most recent Implant Date and an icon to generate a Summary Report are also provided on the Patient List page.


**NEUROPACE**  
 NeuroPace® Patient Data Management System (PDMS)


[Patient List](#)
[My Profile](#)
[Documents](#)
[Log Off](#)

Caution: Federal law restricts this device to sale by or on the order of a physician.  
**NOTE: THIS DOCUMENT MAY CONTAIN PRIVATE MEDICAL INFORMATION**

Patient Name	Implant Date	Summary Report
<i>Active Patients</i>		
<a href="#">PATIENT A</a>	02/02/2007	
<a href="#">PATIENT B</a>	01/01/2005	
<a href="#">PATIENT C</a>	01/01/2007	
<a href="#">PATIENT D</a>	09/23/2007	
<a href="#">PATIENT E</a>	07/08/2008	
<a href="#">PATIENT F</a>	06/06/2007	




## PATIENT SUMMARY REPORT

The Patient Summary Report is accessible by selecting **PATIENT LIST** and clicking on the Printer icon under Summary Report on the same line as the Patient name.


**NEUROPACE**  
 NeuroPace® Patient Data Management System (PDMS)

[Patient List](#)
[My Profile](#)
[Documents](#)
[Log Off](#)

Caution: Federal law restricts this device to sale by or on the order of a physician.  
**NOTE: THIS DOCUMENT MAY CONTAIN PRIVATE MEDICAL INFORMATION**

Patient Name	Implant Date	Summary Report
<i>Active Patients</i>		
<a href="#">PATIENT A</a>	02/02/2007	
<a href="#">PATIENT B</a>	01/01/2005	
<a href="#">PATIENT C</a>	01/01/2007	

The Patient Summary Report provides an overview of the each patient's Neurostimulator data. The report is generated in PDF format which can be printed. The Report contains the following information:

- Montage (including Lead information and last two programming dates)
- Detection settings
- Therapy settings
- Neurostimulator activity data in histogram format
- Recent ECoGs
- Lead impedance measurements
- Battery measurements

## PDMS PATIENT-SPECIFIC PAGES

Once a patient is selected, additional tabs are available to the user. Each of these will be explained on the following pages.

- Reports
- Neurostimulator History
- Configure Detection
- Programming Epochs
- Patient Info

## REPORTS

From the **REPORTS** tab, the user can access a series of reports detailing information about the Neurostimulator. To access this page, select **PATIENT LIST** → **Select a Patient** → **REPORTS**.

The user can select the desired Neurostimulator data by clicking on the “Report Type” of interest and can view ECoG data for the indicated date by clicking on the ECoG thumbnail under “Additional Information”.

Note that the user can customize the “Report Type” and “Additional Information” presented by navigating to the “preferences” hyperlink.

**NEUROPACE** Patient Data Management System (PDMS)

[Patient List](#) [My Profile](#) [Documents](#) [Log Off](#)

**Reports** [Neurostimulator History](#) [Configure Detection](#) [Programming Epochs](#) [Patient Info](#)

Patient: PATIENT A Gender: Male Center: Market Test

**NOTE: THIS DOCUMENT MAY CONTAIN PRIVATE MEDICAL INFORMATION**

RNS™ NEUROSTIMULATOR DATA SUMMARY ([show](#))

**NEUROPACE® PROGRAMMER AND NEUROPACE® REMOTE MONITOR REPORTS**

*Some data may be hidden because of your reporting preferences.*

View and / or change your report [preferences](#)

[Dec 2009](#) [Jan 2010](#) [Feb 2010](#) [Mar 2010](#) [All](#)

Records 1 - 11 of 11

Date of Report (US/Central)	Report Type	Additional Information
Mar 26, 2010 20:32:18 <a href="#">RM</a> <a href="#">TxOn</a> ✓	<a href="#">Initial Interrogation</a>	574 episode(s): 574 STIM
Mar 22, 2010 13:22:34 <a href="#">PGM</a> <a href="#">TxOn</a>	<a href="#">Subsequent Interrogation</a>	0 episode(s)
Mar 15, 2010 17:31:05 <a href="#">PGM</a> <a href="#">TxOn</a>	<a href="#">Programming</a>	
Mar 11, 2010 09:44:53 <a href="#">PGM</a> ✓	<a href="#">Electrode Impedance</a>	
Mar 10, 2010 20:03:41 <a href="#">PGM</a>	Battery Measurement	
Mar 10, 2010 20:03:41 <a href="#">PGM</a>	Therapy Testing	
Mar 09, 2010 10:00:08 <a href="#">PGM</a> <a href="#">TxOn</a> ✓	<choose one>	

Trigger: Long Episode

3.06 Volts  
(0)(0000)(+--+)(2.5mA/120µs/100 ms/125.0 Hz)

### Types of Reports

There are six types of patient reports:

- Interrogation (Initial or Subsequent within the Programmer session)
  - Interrogation time/date
  - Programmed Neurostimulator settings
  - Event counters (# of detections, stimulations, etc)
  - Event date/time and details
- Programming
  - Programming date/time
  - Programmed Neurostimulator settings
- Electrode Impedance
  - Impedance measurement date/time
  - Impedance measurement of each electrode (in ohms)
- Battery Measurement
  - Battery measurement date/time
  - Battery measurement value (in Volts)
- Therapy Testing (shows therapy testing values)
- ECoG
  - ECoG trigger time/date
  - ECoG record
  - ECoG trigger reason
  - ECoG markers (detections, stimulations, etc)

## Viewing Reports

### Neurostimulator Reports

To view Interrogation, Programming, or Electrode Impedance reports, click on the report hyperlink provided under “Report Type”. Battery Measurement and Therapy Testing values are provided directly on the reports page under “Additional Information”.

**NEUROPACE**

[Patient List](#)
[My Profile](#)
[Documents](#)
[Log Off](#)

**NeuroPace® Patient Data Management System (PDMS)**  
[Reports](#)
[Neurostimulator History](#)
[Configure Detection](#)
[Programming Epochs](#)
[Patient Info](#)

**Patient:** PATIENT A    **Gender:** Male    **Center:** Market Test

**NOTE: THIS DOCUMENT MAY CONTAIN PRIVATE MEDICAL INFORMATION**  
**RNS® NEUROSTIMULATOR DATA SUMMARY** ([show](#))

**NEUROPACE® PROGRAMMER AND NEUROPACE® REMOTE MONITOR REPORTS**

*Some data may be hidden because of your reporting preferences.*  
 View and / or change your report [preferences](#)

[Dec 2009](#)
[Jan 2010](#)
[Feb 2010](#)
[Mar 2010](#)
[All](#)

Records 1 - 11 of 11

Date of Report (US/Central)	Report Type	Additional Information
Mar 26, 2010 20:32:18   ✓	<a href="#">Initial Interrogation</a>	574 episode(s): <b>574 STIM</b> 0 episode(s)
Mar 22, 2010 13:22:34	<a href="#">Subsequent Interrogation</a>	
Mar 15, 2010 17:31:05	<a href="#">Programming</a>	
Mar 11, 2010 09:44:53  ✓	<a href="#">Electrode Impedance</a>	
Mar 10, 2010 20:03:41	Battery Measurement	
Mar 10, 2010 20:03:41	Therapy Testing	
<div> <div>                     Mar 09, 2010 10:00:08   ✓                 </div> <div> <input type="text" value="&lt;choose one&gt;"/>                      Trigger: Long Episode                 </div> </div> <div> </div>		

### Viewing ECoGs

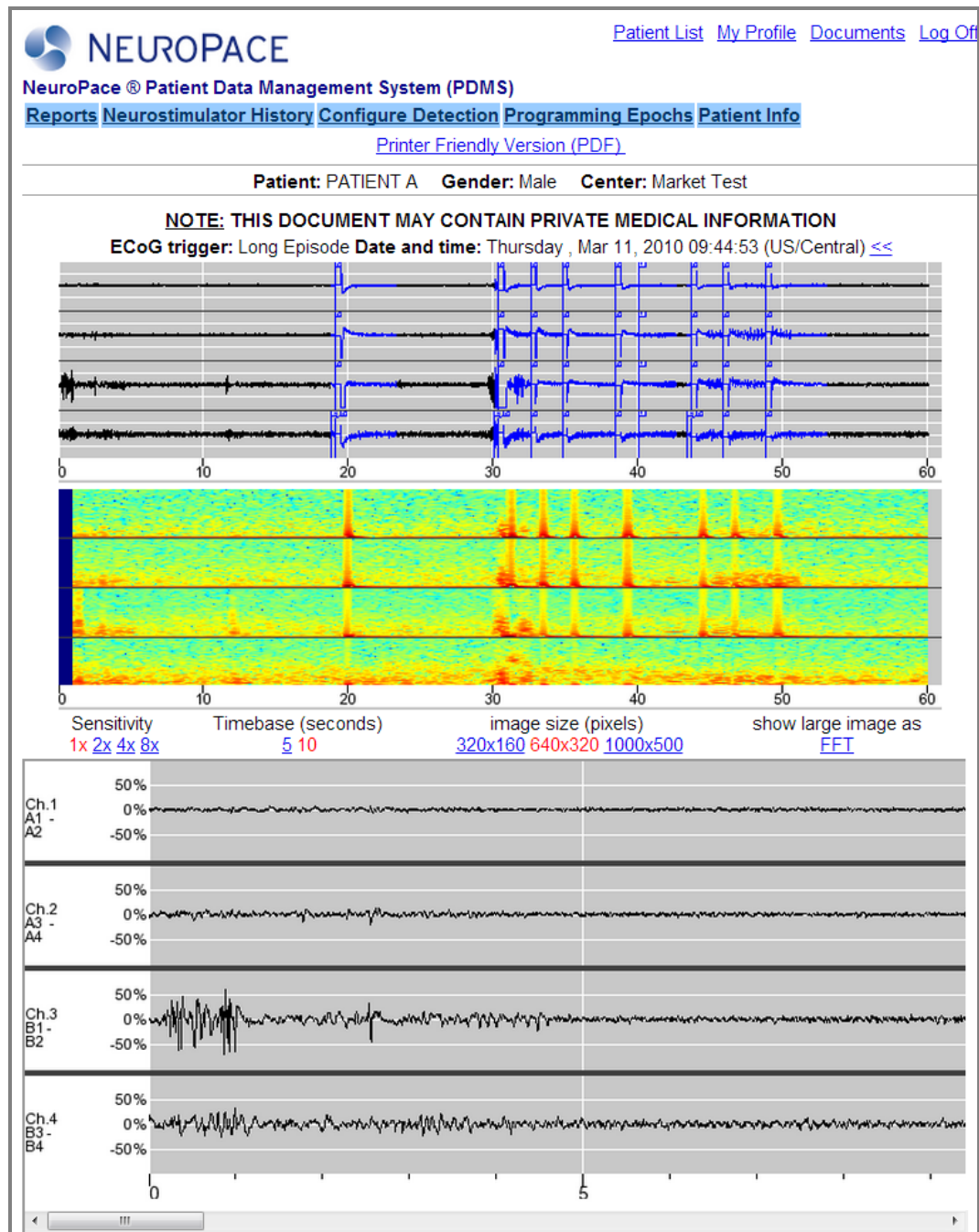
To review an ECoG, click on one of the ECoG thumbnails under “Additional Information”.

Mar 09, 2010 10:00:08 ✓

Trigger: Long Episode

Clicking on the ECoG thumbnail directs the user to 3 visualizations of the ECoG record as described below. Example images are provided on the next page.



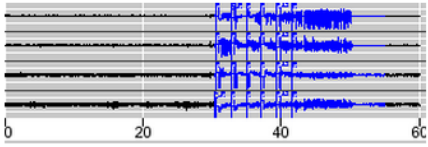


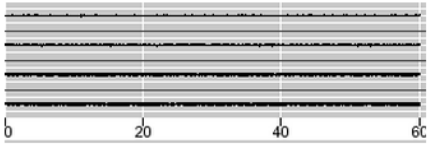


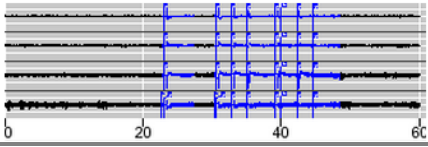


- Top panel: displays the entire ECoG record
- Middle panel: spectral domain signal. The X-axis units are time in seconds. The Y-axis units are frequency from 0 Hz at the bottom to 125 Hz at the top. The amount of power present at each frequency is conveyed by the “hotness” of the color with red being the highest power and blue being the lowest.
- Bottom panel: larger, scrollable ECoG. The gain and timebase can be adjusted for detailed review.



### Categorizing Electrocorticograms (ECoGs)

Users have the option to categorize ECoGs under the Report Type column by selecting a category from the drop-down list located next to each ECoG thumbnail. In the example below, an ECoG category of “Epileptiform activity” is selected.

Records 1 - 37 of 37

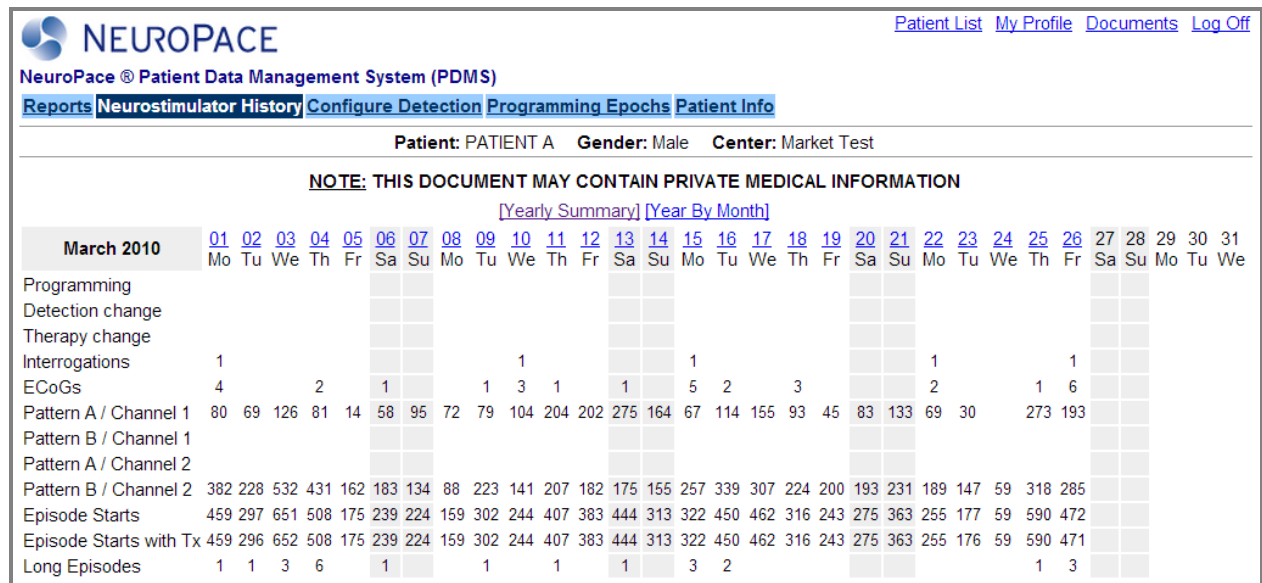
Date of Report (US/Pacific)	Report Type	Additional Information
Mar 26, 2010 18:32:18  	<a href="#">Initial Interrogation</a>	574 episode(s): 574 STIM 
Mar 26, 2010 15:24:30  	<div><div>&lt;choose one&gt;</div><div><div>&lt;choose one&gt;</div><div>Hide this ECoG</div><div>Review this ECoG</div><div>Nondescript</div><div><b>Epileptiform activity</b></div><div>Seizure</div><div>Possible epileptiform termination by stimulation</div><div>Noise</div><div>Patient-reported seizure</div><div>Left Onset</div><div>Right Onset</div><div>Generalized Seizure</div><div>&lt;choose one&gt;</div></div></div>	
Mar 26, 2010 09:46:52  		
Mar 26, 2010 08:24:47  	Trigger: Long Episode	



## NEUROSTIMULATOR HISTORY

The **NEUROSTIMULATOR HISTORY** tab provides a histogram view of historical Neurostimulator data. To review the historical data select **PATIENT LIST** → Select a Patient → **NEUROSTIMULATOR HISTORY**.

The user can view a narrower time window by clicking on a year to view by month, then on a month to view by day, and then on a day to view by hour as desired.



The numbers in the figure above represent the total count for each day. For example, on March 16<sup>th</sup> 2010, there were 2 ECoGs stored, 114 Pattern A / Channel 1 detections, 339 Pattern B / Channel 2 detections, 450 Episode Starts and Episode Starts with Therapy (Tx), and 2 Long Episodes.

## CONFIGURE DETECTION

The **CONFIGURE DETECTION** tab provides a series of steps to enable the user to create detection sets. To access this page select **PATIENT LIST** → Select a Patient → **CONFIGURE DETECTION**.



A Detection Set is a combination of 2 detector channels and up to 3 detection tools that can be programmed into the Neurostimulator.

The user may create Detection Sets and simulate the new detection settings on ECoGs stored on the PDMS. When the physician is satisfied with the detection simulation, the Detection Set can be downloaded to a Programmer from the PDMS. When the patient is in the office, this Detection Set can be programmed into the Neurostimulator.

### Creating a Detection Set

There are five steps to configure and save a new Detection Set. Each step is summarized below, then explained in detail on the following pages.

1. Create/Modify an ECoG Set.
2. Load an ECoG Set to use in configuring detection.
3. Load Detection Set to use in configuring detection.
4. Modify and Simulate Detection Set.
5. Save and Send Detection Set.

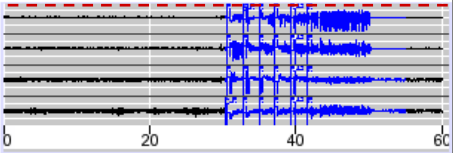
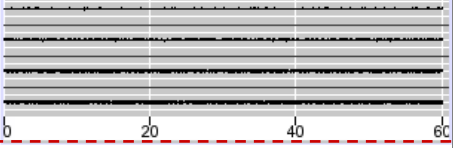
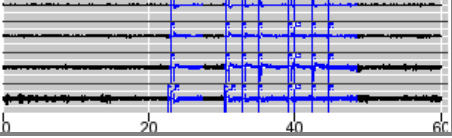
#### *Step 1: Create/Modify an ECoG Set*

ECoG Sets are used to test proposed Detection Sets. The ECoG set should include ECoGs containing the type of ECoG activity the user wishes to detect as well as ECoGs containing baseline activity the user does not wish to detect. Detection Sets should promptly detect ECoG activity and not detect on baseline activity. Below are the steps for creating an ECoG set:

1. Click "Create a New ECoG Set" or "Modify/Delete an Existing ECoG Set" as applicable.

2. If a new set is being created, skip to the next step. If an existing set is being modified, select the ECoG Set to be modified (or deleted) from the drop-down list to the right of ECoG Sets.

3. Select the ECoGs to be included in the ECoG Set by placing a check in the box next to each ECoG. The background of the selected ECoG record will become highlighted. The ECoGs selected will also appear in the right panel of the browser window (not shown here) under "Selected ECoGs".

Date of Report (US/Pacific)	Trigger/Categorization	Select ECoG	Additional Information
Mar 26, 2010 15:24:30 <span>PGM TxOn</span>	Categorization: Trigger: Long Episode	<input checked="" type="checkbox"/>	
Mar 26, 2010 09:46:52 <span>PGM TxOn</span>	Categorization: Trigger: Scheduled ECoG storage	<input checked="" type="checkbox"/>	
Mar 26, 2010 08:24:47 <span>PGM TxOn</span>	Categorization: Trigger: Long Episode	<input type="checkbox"/>	

4. After the desired ECoGs have been selected, if not already named, name the ECoG Set (Example: "Test Set #1") and click the "Save Set" button.

**Create a New ECoG Set** Or **Modify/Delete an Existing ECoG Set** then [Configure Detection](#)

ECoG Set Name:

5. After the Detection Set is saved, click the "Configure Detection" hyperlink to return to the **LOAD DETECTION SET** tab.

### Step 2: Load an ECoG Set

1. Select the ECoG Set that will be used for configuring detection. The saved ECoG sets are provided in a drop-down list at the top of the **CONFIGURE DETECTION** page.

Selected Detection Set: **None**

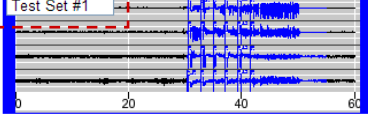
**1) Load Detection Set** 2) Select Channels 3) Select Patterns 4) Select/Adjust Tools 5) Save Detection Set

Start by loading an existing detection set from the drop list below, or by loading the currently programmed detection set, or by creating a new detection set from scratch (proceed to step 2 for this).

Detection Sets:

**ECoG Sets:**

- Test Set #4
- Test Set #4 **in ECoG Set**
- Test Set #3
- Test Set #2
- Test Set #1



Scheduled ECoG storage: Mar 26, 2010

### Step 3: Load Detection Set

1. Select the Detection Set of interest from the drop-down list
  - a. All Detection Sets previously created on the PDMS for the current Neurostimulator and montage, as well as the currently programmed Detection Set, are available as a starting point for configuring new settings.
  - b. It is also possible to load the currently programmed detection settings by selecting the “Load Currently Programmed Detection Set” button. This is often a good choice because adjusting detection in small increments may result in a more predictable response.
  - c. If no Detection Sets have been created on PDMS, the “<You have not created any detection sets>” message will appear in the Detection Set selection drop-down list window. If so, select the “Load Currently Programmed Detection Set” button, then proceed with next step.

**1) Load Detection Set** **2) Select Channels** **3) Select Patterns** **4) Select/Adjust Tools** **5) Save Detection Set**

Start by loading an existing detection set from the drop list below, or by loading the currently programmed detection set, or by creating a new detection set from scratch (proceed to step 2 for this).

Detection Sets: C1B11L38%, C3L50%  
April 5, 2010  
April 5, 2010 #2  
May 13, 2010  
C1B11L38%, C3L50%

Load Detection Set Load Currently Programmed Detection Set

2. After selecting a Detection Set, click the “Load Detection Set” button.

**1) Load Detection Set** **2) Select Channels** **3) Select Patterns** **4) Select/Adjust Tools** **5) Save Detection Set**

Start by loading an existing detection set from the drop list below, or by loading the currently programmed detection set, or by creating a new detection set from scratch (proceed to step 2 for this).

Detection Sets: April 5, 2010 #2

Load Detection Set Delete Detection Set

Load Currently Programmed Detection Set

#### Step 4: Modify and Simulate Detection Set

Once the “Load Detection Set” button is selected, the user is taken to the **SELECT/ADJUST TOOLS** tab.

From this screen, Detection Sets can be modified and performance simulated for the associated ECoG Set. Using simulation, the user is able to make the detection more or less sensitive to the electrographic activity of interest by adjusting the individual settings within a tool. Before modifying a Detection Set, the user should review several ECoGs to determine which channel(s) and detectors need to be adjusted.

In the example below, the Short-Term Trend of a Line Length tool is being adjusted using the drop-down list.

1) Load Detection Set 2) Select Channels 3) Select Patterns 4) Select/Adjust Tools 5) Save Detection Set

View in [Technical Mode](#)

**Select and configure the tools within each Pattern detector here.**

Line Length parameters for Pattern A on the First Detector (ch.1 Het1-Het2):

Detection Threshold: 37.5 %

Short-Term Trend: 1.024 sec

Long-Term Trend: 4.096 sec

2.048 sec

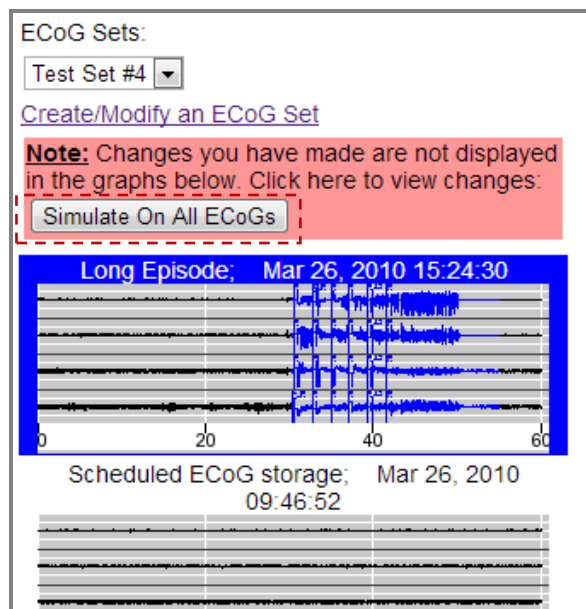
Back

Note: Changes you have made are not displayed in the graph below. Click here to view changes:

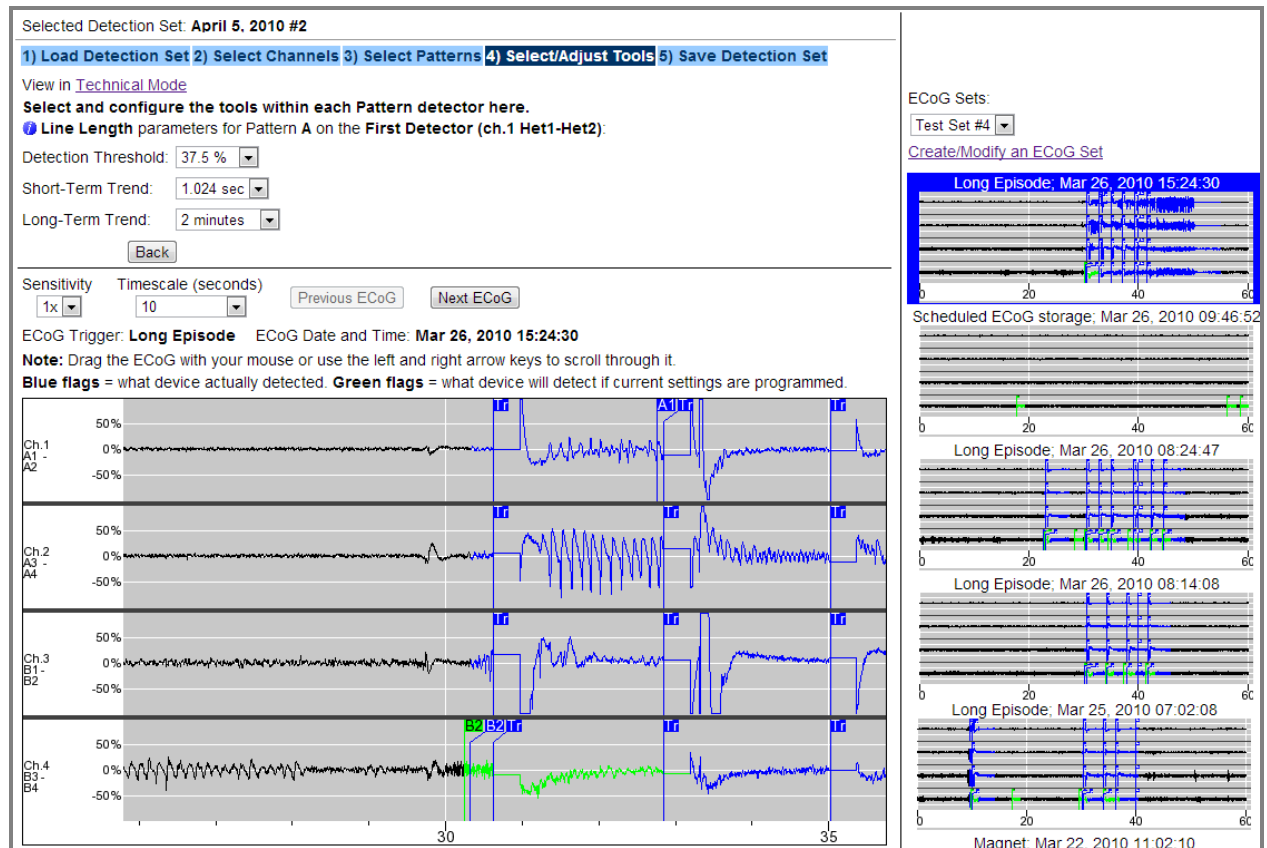
Simulate Detection

After the new Detection Set has been configured, simulation can be performed to assess detection performance.

1. Select the “Simulate On All ECoGs” button on the right side of the screen to simulate detection for all the ECoGs in that ECoG Set.



2. Simulated detection appears in green on the ECoGs. To zoom in on the simulated results, select an ECoG on the right by clicking on it. The selected ECoG thumbnail background will turn blue and this ECoG will appear in large format on the left side of the screen. Use the mouse or arrow keys to move left or right in the large format ECoG.



### Step 5: Save and Send Detection Set

Detection Sets can be saved and sent to a Programmer to be used for a future programming session with that patient. It is important to note that Detection Sets will only be sent to NeuroPace® Programmers that have previously interrogated the Neurostimulator for which the Detection Set was configured. Detection Sets may also be shared with another PDMS user authorized to view the patient's data.

1. If the Detection Set is to be sent to a NeuroPace® Programmer, check the box next to "Send detection set to Programmer".
2. If the Detection Set is to be sent to an authorized viewer, select the appropriate recipient from the drop-down list.
3. Once the selections are made, click the "Save Detection Set" button

**Note:** When a Detection Set is sent to a Programmer or another user, the ECoG set used to configure the Detection Set will also be sent.


The screenshot shows the '5) Save Detection Set' step of the configuration process. The 'Detection Set Name' is 'April 5, 2010 #2'. Below this, there are two options for sending the detection set: 'Send detection set to: Dr. John' (selected) and 'Send detection set to Programmer: [checked]'. A 'Save Detection Set' button is located at the bottom of the form.

## PROGRAMMING EPOCHS

The Programming Epochs screen displays a history of RNS<sup>®</sup> Neurostimulator programmed settings as well as the daily count and monthly averages of detections, delivered therapies, magnet swipes, saturations, and long episodes that have occurred between two programming dates.

To view this information, select **PATIENT LIST** → **Select a Patient** → **PROGRAMMING EPOCHS**. Clicking on the date of programming will navigate to the Programming Report for that date.

The settings in blue are programming changes that were made on that date.


[Patient List](#)
[My Profile](#)
[Documents](#)
[Log Off](#)

NeuroPace<sup>®</sup> Patient Data Management System (PDMS)
[Reports](#)
[Neurostimulator History](#)
[Configure Detection](#)
[Programming Epochs](#)
[Patient Info](#)

Patient: PATIENT E
Gender: Female
Center: Market Test


NOTE: THIS DOCUMENT MAY CONTAIN PRIVATE MEDICAL INFORMATION

Date of Programming	Epoch Length	Therapy Pathway (lead1)(lead2)(Can)	Charge Density	Amp	PW	Freq	Burst Dur	Detection Summary	Magnets per month/total	Saturations per month/total	Long Episodes per month/total	Episodes per day	Therapies per day
03/23/09	105 Days	Tx1: (++++)(---)(0) (---)(++++)(0) 1.5 µC 3.0 mA Tx2: (++++)(---)(0) (---)(++++)(0) 1.5 µC 3.0 mA Tx3: (++++)(---)(0) (---)(++++)(0) 1.5 µC 3.0 mA Tx4: (++++)(---)(0) (---)(++++)(0) 1.5 µC 3.0 mA Tx5: (++++)(---)(0) (---)(++++)(0) 1.5 µC 3.0 mA	Tx1: 3.0 mA 3.0 mA Tx2: 3.0 mA 3.0 mA Tx3: 3.0 mA 3.0 mA Tx4: 3.0 mA 3.0 mA Tx5: 3.0 mA 3.0 mA	Tx1: 160 µs 160 µs Tx2: 160 µs 160 µs Tx3: 160 µs 160 µs Tx4: 160 µs 160 µs Tx5: 160 µs 160 µs	Tx1: 100.0 Hz 100.0 Hz Tx2: 100.0 Hz 100.0 Hz Tx3: 100.0 Hz 100.0 Hz Tx4: 100.0 Hz 100.0 Hz Tx5: 100.0 Hz 100.0 Hz	Tx1: 100 ms 100 ms Tx2: 100 ms 100 ms Tx3: 100 ms 100 ms Tx4: 100 ms 100 ms Tx5: 100 ms 100 ms	[A] Ch 2 SPL23 - SPL24 BP(15-125 Hz, 9%, 5/10) [B] Ch 4 SPL33 - SPL34 BP(14-125 Hz, 9%, 5/10)	0/0 0	6.9/26 0.3/1	0.3/1	242 242		
03/09/09	14 Days	Tx1: (++++)(---)(0) (---)(++++)(0) 1.0 µC 2.0 mA Tx2: (++++)(---)(0) (---)(++++)(0) 1.0 µC 2.0 mA Tx3: (++++)(---)(0) (---)(++++)(0) 1.0 µC 2.0 mA Tx4: (++++)(---)(0) (---)(++++)(0) 1.0 µC 2.0 mA Tx5: (++++)(---)(0) (---)(++++)(0) 1.0 µC 2.0 mA	Tx1: 2.0 mA 2.0 mA Tx2: 2.0 mA 2.0 mA Tx3: 2.0 mA 2.0 mA Tx4: 2.0 mA 2.0 mA Tx5: 2.0 mA 2.0 mA	Tx1: 160 µs 160 µs Tx2: 160 µs 160 µs Tx3: 160 µs 160 µs Tx4: 160 µs 160 µs Tx5: 160 µs 160 µs	Tx1: 100.0 Hz 100.0 Hz Tx2: 100.0 Hz 100.0 Hz Tx3: 100.0 Hz 100.0 Hz Tx4: 100.0 Hz 100.0 Hz Tx5: 100.0 Hz 100.0 Hz	Tx1: 100 ms 100 ms Tx2: 100 ms 100 ms Tx3: 100 ms 100 ms Tx4: 100 ms 100 ms Tx5: 100 ms 100 ms	[A] Ch 2 SPL23 - SPL24 BP(15-125 Hz, 9%, 5/10) [B] Ch 4 SPL33 - SPL34 BP(14-125 Hz, 9%, 5/10)	0/0 0	9.9/5 167.1/84	167.1/84	1656 1642		
02/23/09	14 Days	OFF	OFF	OFF	OFF	OFF	OFF	[A] Ch 2 SPL23 - SPL24 BP(13-125 Hz, 10%, 5/10) [B] Ch 4 SPL33 - SPL34 BP(13-125 Hz, 7%, 5/10)	0/0 0	72.5/36 255.7/127	255.7/127	1964 0	
02/12/09	11 Days	OFF	OFF	OFF	OFF	OFF	OFF	[A] Ch 1 SPL21 - SPL22 LL(75%, 4s, 2m) [B] Ch 3 SPL31 - SPL32 LL(75%, 4s, 2m)	0/0 0	28/11 99.2/392	99.2/392	404 0	

**Note:** If a patient does not interrogate for over 28 days, data will be over-written, so the counts shown in the epoch summary become inaccurate.

## PATIENT INFO

The Patient Information screen is accessible by selecting **PATIENT INFO**. This page provides detail on the patient, including information about the implanted Neurostimulator.

 **NEUROPACE**

[Patient List](#) [My Profile](#) [Documents](#) [Log Off](#)

NeuroPace ® Patient Data Management System (PDMS)

[Reports](#) [Neurostimulator History](#) [Configure Detection](#) [Programming Epochs](#) **[Patient Info](#)**

Patient: PATIENT A   Gender: Male   Center: Market Test

**NOTE: THIS DOCUMENT MAY CONTAIN PRIVATE MEDICAL INFORMATION**

**Patient Information**

First Name:	PATIENT
Last Name:	A
Current Neurostimulator SN:	107253
Current Neurostimulator implant date:	02/02/2007
First Neurostimulator implant date:	02/02/2007

## EXITING THE PDMS

The user can log off of the PDMS at any time by selecting **LOG OFF**, which is located on every page in the upper right corner.

*Note: The user is automatically logged off whenever the user exits the website, closes the browser window, or after a period of 30 minutes without activity. Please note that changes made to the personal profile, reporting preferences or ECoG annotations may be lost if not submitted prior to being automatically logged off due to inactivity.*



## PDMS TROUBLESHOOTING

If you are having trouble accessing the PDMS or during a PDMS session, try the following:

1. Ensure the internet connection is functioning properly.
2. Log off of the PDMS and then log back in. Next, try to access the website page that you want to view.
3. If you are still having trouble, close down your internet browser completely. Then open a new browser window and log back into the PDMS.
4. If you are still having trouble, record all error messages displayed and contact NeuroPace.

---

NeuroPace, Inc.  
455 N. Bernardo Ave.  
Mountain View, CA 94043

Customer Support: 1-866-726-3876

(Toll Free in the US)

Fax: 650-237-2855

Website: [www.NeuroPace.com](http://www.NeuroPace.com)



NEUROPACE